

# MATERIAL SAFETY DATA SHEET

## MSDS

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Date-Issued 09/22/1997

MSDS Ref No RAQU05153

Date-Revised 10/28/1997

Revision No 1

### Aqua Chem Vinyl Pool Algae Killer

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Aqua Chem Vinyl Pool Algae Killer

GENERAL USE Granular algae killer

CHEMICAL FAMILY Chlorinated Isocyanurates

##### MANUFACTURER

Recreational Water Products

Aqua Chem

PO Box 887

Scottsdale, GA 30079

Customer SERVICE (800) 949-7946

##### 24 HR EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300

Rocky Mountain (Medical) (303) 623-5716

##### COMMENTS:

EPA Registration Number 67262-16

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt %	CAS Registry #	EINECS #
Sodium dichloro-s-triazinetriene	97	2893-78-9	220-767-7

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

###### PHYSICAL APPEARANCE

White, granular material

###### IMMEDIATE CONCERNS

DANGER CORROSIVE Causes irreversible eye damage May be fatal if inhaled Harmful if swallowed or absorbed through skin Do not get in eyes, on skin or on clothing Do not breathe dust, vapor or spray mists Wear goggles, face shield, or safety glasses Wash thoroughly with soap and water after handling Remove contaminated clothing and wash before reuse

##### POTENTIAL HEALTH EFFECTS

###### EYES

DANGER Corrosive Causes irreversible eye damage Do not get in eyes

###### SKIN

DANGER Corrosive Causes skin damage Do not get on skin

###### SKIN ABSORPTION

Harmful if absorbed through skin

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#### INGESTION

Harmful if swallowed

#### INHALATION

May be fatal if inhaled Irritating to nose and throat Avoid breathing dust or vapors

#### CHRONIC

There are no known chronic hazards

#### ROUTES OF ENTRY

Skin Contact, Inhalation, Ingestion Eye Contact

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## 4. FIRST AID MEASURES

#### EYES

If in eyes Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes Get medical attention

#### SKIN

If on skin Wash with plenty of soap and water Get medical attention if irritation persists

#### INGESTION

If swallowed Drink promptly large quantities of water Avoid alcohol Call a physician or poison control center immediately

#### INHALATION

If inhaled Remove victim to fresh air If not breathing, give artificial respiration, preferably mouth to mouth Get medical attention

#### NOTES TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage

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## 5. FIRE FIGHTING MEASURES

#### GENERAL HAZARD

This product, if heated by an outside source to temperatures above 240 C (464 F), will undergo vigorous self-sustaining decomposition with the evolution of heat and dense noxious gases In addition, when in contact with another combustible material, this product will increase the burning rate of the combustible material When ignited, will burn with the evolution of noxious chlorine containing gases

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#### EXTINGUISHING MEDIA

In case of fire or smoke, call the fire department. Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water. DO NOT use ABC or other dry chemical extinguishers since there is the potential for a violent reaction.

#### EXPLOSION HAZARDS

Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard.

Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form.

Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal.

Bulging containers require extreme care. Contact the fire department.

#### FIRE FIGHTING PROCEDURES

Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Using a 10% solution of sodium carbonate, thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

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## 6. ACCIDENTAL RELEASE MEASURES

#### GENERAL PROCEDURES:

Using appropriate protective clothing and safety equipment, contain spilled material. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Dispose of according to local, state and federal regulations.

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## 7. HANDLING AND STORAGE

#### HANDLING

**STRONG OXIDIZING AGENT** Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. Use clean dry utensils. Do

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not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

#### STORAGE

Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Do not store above 125 F (52 C).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Sodium dichloro-s-triazinetriene	TWA	N/E <sup>(1)</sup>		N/E			

#### OSHA TABLE COMMENTS

1 N/E = Not Established

#### ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to minimize exposure to dust/vapors.

#### PERSONAL PROTECTIVE EQUIPMENT:

##### EYES AND FACE

Wear goggles or safety glasses with side shields when handling this product.

##### SKIN

Wear rubber gloves when handling this product. Avoid contact with skin.

##### RESPIRATORY

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

#### WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse.

#### OTHER USE PRECAUTIONS

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid  
ODOR Chlorine  
APPEARANCE Granules  
COLOR White  
pH 6 to 7 (1% solution @ 25 C)  
MELTING POINT (464°F) to (480°F)  
SOLUBILITY IN WATER 24g / 100g water  
DENSITY 56 - 60 lb / cu ft

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#### 10. STABILITY AND REACTIVITY

##### CONDITIONS TO AVOID

High temperature Poor ventilation Contamination Moisture/high humidity

##### STABILITY

This product is stable under normal conditions

##### POLYMERIZATION

Hazardous polymerization will not occur under normal conditions

##### HAZARDOUS DECOMPOSITION PRODUCTS

Chlorine containing gases can be produced

##### INCOMPATIBLE MATERIALS

This material is a strong oxidizing agent. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidizable organic material, ammonia, urea, or similar nitrogen containing compounds, inorganic reducing compounds, floor sweeping compounds, calcium hypochlorite, alkalis, other swimming pool/spa chemicals in their concentrated forms.

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#### 11. TOXICOLOGICAL INFORMATION

##### ACUTE

ORAL LD<sub>50</sub> 1500 mg/kg (rat)

##### EYE EFFECTS

This product is corrosive to eyes

##### SKIN EFFECTS

This product is corrosive to skin

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#### CARCINOGENICITY

This product is not listed as a carcinogen by IARC  
This product is not listed as a carcinogen by NTP  
This product is not listed as a carcinogen by GSHA

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## 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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## 13. DISPOSAL CONSIDERATIONS

#### DISPOSAL METHOD

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

#### EMPTY CONTAINER

Do not reuse container. Rinse thoroughly before discarding in trash.

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## 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Dichloroisocyanuric Acid Dry

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: 2465

PACKING GROUP: II

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